

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Richard A. SCHUMACHER et al.

Serial No.: 10/622,117

Group Art Unit: Unassigned

Filed: July 18, 2003

Examiner: Unassigned

For: PHOSPHODIESTERASE 4 INHIBITORS, INCLUDING AMINOINDAZOLE AND AMINOBENZOFURAN ANALOGS

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
- ☐ within three months of the filing date of a national application other than a CPA under § 1.53(d);
  - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
  - ☒ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
- ☐ a final rejection under 37 C.F.R. 1.113;
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- ☐ the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
  - ☐ a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).
- ☐ Under 37 C.F.R. § 1.97(d), this information disclosure statement is filed after the mailing date of the following actions which have not been withdrawn:
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Statements Under 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

Cited Materials

- ☐ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. \_\_\_\_\_, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☐ Copies of materials listed but not attached were cited in an international search report dated \_\_\_\_\_.

☒ Copies of the materials listed are attached.

Non-English Language References

☐ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).

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Y = document of particular relevance when it is combined with another such document

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T = document cited to understand the theory or principle underlying the invention

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D = cited in the application

L = cited for another reason

& = publication of member of same patent family

☐ Translation of other relevant information on foreign search report

Other Information

The instant application is related to copending patent applications Serial No. 10/051,309, filed January 22, 2002, Serial No. 10/361,634 filed February 11, 2003, Serial No. 10/754,600, filed January 12, 2004, Serial No. 10/662,833, filed July 21, 2003; and Serial No. 10/715,819, filed November 19, 2003. Enclosed are copies of documents cited in said related applications.

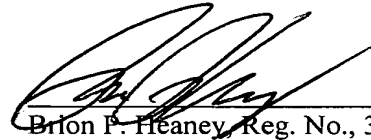
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☐ A check for \$\_\_\_\_\_ covering the fee identified above is attached.

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Respectfully submitted,



Brian P. Heaney, Reg. No., 32,542  
Attorney/Agent for Applicants

MILLEN, WHITE, ZELANO  
& BRANIGAN, P.C.  
Arlington Courthouse Plaza I  
2200 Clarendon Blvd. Suite 1400  
Arlington, Virginia 22201  
Telephone: (703) 243-6333  
Facsimile: (703) 243-6410

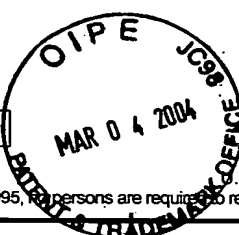
Attorney Docket No.: MEMORY-29

Date: March 4, 2004

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Application Number	10/622,117
Filing Date	July 18, 2003
First Named Inventor	Allen T. HOPPER
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-29

Sheet 1 of 5

### S. PATENT DOCUMENTS

Examine r Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,591,776		Cavalla et al.	01/07/1997	
		5,622,977		Warrellow et al.	04/22/1997	
		5,633,257		Warrellow et al.	05/27/1997	
		5,679,696		Fenton et al.	10/21/1997	
		5,693,659		Head et al.	12/02/1997	
		5,698,711		Palfreyman	12/16/1997	
		5,710,160		Guay et al.	01/20/1998	
		5,710,170		Guay et al.	01/20/1998	
		5,712,298		Amschler	01/27/1998	
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		5,728,712		Montana et al.	03/17/1998	
		5,739,144		Warrellow et al.	04/14/1998	
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		5,859,034		Warrellow et al.	01/12/1999	
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		6,245,774		Warrellow et al.	06/12/2001	
		6,297,264		Head et al.	10/02/2001	

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## **Complete if Known**

Application Number	10/622,117
Filing Date	July 18, 2003
First Named Inventor	Allen T. HOPPER
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-29

Sheet 2 of 5

## **U.S. PATENT DOCUMENTS**

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		Number	Kind Code <sup>2</sup> (if known)			
	1	5,889,014			3/30/1999	
	2	6,153,630			11/28/2000	
	3	2002151566			10/17/2002	

## **FOREIGN PATENT DOCUMENTS**

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		FR	2729142	A1	Nadler et al.	07/12/1996		
		EP	1116711	A2	Chassot et al	07/18/2001		
		EP	0994100	A1	Shinji et al.	04/19/2000		
		WIPO	96/21435	A1	Cavalla et al	07/18/1996		
		WIPO	00/71129	A1	Hunt et al	11/30/2000		
		WIPO	94/27971	A1	Nadler et al.	12/08/1994		
		WIPO	93/25517			12/23/1993		
		WIPO	94/14742			07/07/1994		
		WIPO	98/58901			12/30/1998		
		JP	11-189577			07/13/1999		
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		WIPO	96/36620		Giulio et al	11/1996		
		WO	00/64874			11/2/00		
		WO	01/70738			9/27/01		
		WO	94/02465			2/3/94		
		WO	95/01338			1/12/95		
		WO	96 21435			7/18/1996		1, 2
		WO	02 074726			9/26/2002		3

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Sheet 3 of 5	Attorney Docket Number	MEMORY-29	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236	
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Sheet 4 of 5

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First Named Inventor	Allen T. HOPPER
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Attorney Docket Number	MEMORY-29

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <u>Analytical Biochemistry</u> , 1994, pp.154-158, Vol. 215	
		DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," <u>Analytical Biochemistry</u> , 1996, pp. 367-369, Vol. 236	
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		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <u>J. Med. Chem.</u> , 1997, pp. 3207-3216, Vol. 40	
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		J.E. SOUNNES et al., "Proposal for Pharmacologically Distinct Conformers of PDE4 Cyclic AMP Phosphodiesterases," <u>Cell Signal</u> , 1997, pp. 227-236. Vol. 9, No. 3-4	
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		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <u>Biochem. And Biophys. Research Comm.</u> , Vol. 234, 320-324 (1997).	

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Signature

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		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," Tetrahedron Letters, Vol. 39, 2933-2936 (1998).	
		Mark BARAD et al., "Rolipram, a Type IV-Specific Phosphodiesterase Inhibitor Facillitates the Establishment of Long-lasting Long-term Potentiation and Improves Memory," Proc. Natl. Acad. Sci., Vol. 95, pp. 15020-15025 (December 1998).	
		Miles D. HOUSLAY et al., "The Multienzyme PDE4 Cyclic Adenosine Monophosphate-Specific Phosphodiesterase Family: Intracellular Targeting, Regulation, and Selective Inhibition by Compounds Exerting Anti-inflammatory and Antidepressant Actions," <u>Advances in Pharmacology</u> , Vol. 44, pp. 225-342, 1998.	
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		Han-Ting ZHANG et al., "Inhibition of Cyclic AMP Phosphodiesterase (PDE4) Reverses Memory Deficits Associated with NDMA Receptor Antagonism," <u>Neuropsychopharmacology</u> , 2000, Vol. 23, pp. 198-204.	
		Han-Ting ZHANG et al., "Effects of Rolipram on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," <u>Psychopharmacology (Berl)</u> 2000 June;150(3):pp. 311-6.	
		T.W. Greene et al., <u>Protective Groups in Organic Synthesis</u> , 3 <sup>rd</sup> Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999	
		Japanese Patent Abstract No. 7206789 dated 8/8/1995	

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